INVITED REVIEWS

Ficoll and dextran vs. globular proteins as probes for testing glomerular permselectivity: effects of molecular size, shape, charge, and deformability

D. Venturoli and B. Rippe

Role of the renin-angiotensin system in the pathogenesis of preeclampsia

D. M. Shah

TRANSLATIONAL PHYSIOLOGY

Programming blood pressure in adult SHR by shifting perinatal balance of NO and reactive oxygen species toward NO: the inverted Barker phenomenon

S. Racasan, B. Braam, H. A. Koomans, and J. A. Joles

Decreases in free cholesterol and fatty acid unsaturation in renal cell carcinoma demonstrated by breath-hold magnetic resonance spectroscopy


CALL FOR PAPERS

Lithium treatment inhibits renal GSK-3 activity and promotes cyclooxygenase 2-dependent polyuria

R. Rao, M.-Z. Zhang, M. Zhao, H. Cai, R. C. Harris, M. D. Breyer, and C.-M. Hao

The γ-subunit of Na-K-ATPase is incorporated into plasma membranes of mouse IMCD3 cells in response to hypertonicity


Src family kinase involvement in rat preglomerular microvascular contractile and [Ca^{2+}]_{i}, responses to ANG II

Q. Che and P. K. Carmines

Glomerular and tubular damage in normotensive and hypertensive rats

J. Ofstad and B. M. Iversen

Angiotensin II AT1 receptor blockade decreases vasopressin-induced water reabsorption and AQP2 levels in NaCl-restricted rats


Stimulation of soluble guanylyl cyclase inhibits mesangial cell proliferation and matrix accumulation in experimental glomerulonephritis

B. Hohenstein, C. Daniel, A. Wagner, J.-P. Stasch, and C. Hugo

Expression of endothelial nitric oxide synthase in developing rat kidney

K.-H. Han, J.-M. Lim, W.-Y. Kim, H. Kim, K. M. Madsen, and J. Kim

(Continued)
Lithium activates the Wnt and phosphatidylinositol 3-kinase Akt signaling pathways to promote cell survival in the absence of soluble survival factors


Protease-activated receptor stimulation activates a Ca²⁺-independent phospholipase A₂ in bladder microvascular endothelial cells

A. Rickard, C. Portell, P. J. Kell, S. M. Vinson, and J. McHowat

Renal ischemia-reperfusion injury and adenosine 2A receptor-mediated tissue protection: role of macrophages

Y.-J. Day, L. Huang, H. Ye, J. Linden, and M. D. Okusa

A consensus sequence in the endothelin-B receptor second intracellular loop is required for NHE3 activation by endothelin-1

K. Laghmani, A. Sakamoto, M. Yanagisawa, P. A. Preisig, and R. J. Alpern

Activation of dopamine D₁-like receptors induces acute internalization of the renal Na⁺/H⁺/phosphate cotransporter NaPi-IIa in mouse kidney and OK cells

D. Bacic, P. Capuano, M. Baum, J. Zhang, G. Stange, J. Biber, K. Kaisling, O. W. Moe, C. A. Wagner, and H. Murer

Primary human glomerular endothelial cells produce proteoglycans, and puromycin affects their posttranslational modification

A. Björnsson, J. Moses, A. Ingemansson, B. Haraldsson, and J. Sörensson

Effects of isoprostane on tubuloglomerular feedback: roles of TP receptors, NOS, and salt intake

W. J. Welch

AT₂ receptors cross talk with AT₁ receptors through a nitric oxide- and RhoA-dependent mechanism resulting in decreased phospholipase D activity

B. T. Andersen, K. Shome, E. K. Jackson, and G. G. Romero

L-type calcium channels in the renal microcirculatory response to endothelin

D. M. Pollock, J. M. Jenkins, A. K. Cook, J. D. Imig, and E. W. Inscho

Protective effects of exogenous bilirubin on ischemia-reperfusion injury in the isolated, perfused rat kidney

C. A. Adin, B. P. Croker, and A. Agarwal

Angiotensin II Ca²⁺ signaling in rat afferent arterioles: stimulation of cyclic ADP ribose and IP₃ pathways

S. K. Fellner and W. J. Arendshorst

Substrate specificity of the human renal sodium dicarboxylate cotransporter, hNaDC-3, under voltage-clamp conditions

B. C. Burckhardt, J. Lorenz, C. Kobbe, and G. Burckhardt

Integrated actions of transforming growth factor-β₁ and connective tissue growth factor in renal fibrosis

W. Qi, S. Twigg, X. Chen, T. S. Polhill, P. Poronnik, R. E. Gilbert, and C. A. Pollock

Salt-sensitive hypertension develops after transient induction of ANG II-dependent hypertension in Cyp1a1-Ren2 transgenic rats

L. L. Howard, M. E. Patterson, J. J. Mullins, and K. D. Mitchell

The role of NOS2 and NOS3 in renal protein and arginine metabolism during early endotoxemia in mice


Biotin uptake by human proximal tubular epithelial cells: cellular and molecular aspects

K. Balamurugan, N. D. Vaziri, and H. M. Said

N-ethylmaleimide causes aquaporin-2 trafficking in the renal inner medullary collecting duct by direct activation of protein kinase A

S. Shaw and D. Marples

Cross talk between the intrarenal dopaminergic and cyclooxygenase-2 systems

M.-Z. Zhang, B. Yao, J. A. McKanna, and R. C. Harris

(Continued)
BK-β1 subunit: immunolocalization in the mammalian connecting tubule and its role in the kaliuretic response to volume expansion

J. L. Pluznick, P. Wei, P. R. Grimm, and S. C. Sansom

EphA2: expression in the renal medulla and regulation by hypertonicity and urea stress in vitro and in vivo


CORRIGENDUM

Corrigendum for Ortiz PA et al., Volume 287/56, August 2004, p. F274–F288

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for the Editorship of the

American Journal of Physiology–Endocrinology and Metabolism

Nominations are invited for the Editorship of the American Journal of Physiology–Endocrinology and Metabolism to succeed M. Mueckler, who will complete his term as Editor on December 31, 2006. The Publications Committee plans to interview candidates in the Spring of 2006.

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Nominations, accompanied by a curriculum vitae, should be sent to the Chair of the Publications Committee:

Kim E. Barrett, Ph.D.
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San Diego, CA 92103-8414